

ALUMINIUM CHLORIDE ANHYDROUS 99%

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Compilation date: 10/01/2019

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ALUMINIUM CHLORIDE ANHYDROUS 99%

CAS number: 7446-70-0
EINECS number: 231-208-1
Product code: GPC9294

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC21: Laboratory chemicals.

1.3. Details of the supplier of the safety data sheet

Select School Supplies
The Old Granary
Berghill House
Oswestry
SY11 4PD
01691 770366
sales@selectschoolsupplies.co.uk

1.4. Emergency telephone number

Emergency tel: 01691 770366

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314

Classification under CHIP: C: R34

Most important adverse effects: Causes severe skin burns and eye damage.

2.2. Label elements

Label elements under CLP:

Hazard statements: H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Other hazards: Reacts violently with water. This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: ALUMINIUM CHLORIDE ANHYDROUS 99%

CAS number: 7446-70-0 **EINECS number:** 231-208-1

Contains: Formula: AICI3

Molecular weight: 133.34 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash

immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash

out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for

breathing and apply artificial respiration if necessary. Consult a doctor.

$\ \, \textbf{4.2. Most important symptoms and effects, both acute and delayed} \\$

Skin contact: No data available.

Eye contact: Severe eye irritation. **Ingestion:** No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.

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Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Dry chemical powder. Carbon dioxide. Dry Sand Do NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist

or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see

section 8.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in

suitable, closed containers for disposal. Do not flush with water.

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions

see section 2.2.

${\bf 7.2.}\ Conditions\ for\ safe\ storage,\ including\ any\ incompatibilities$

Storage conditions: Keep container tightly closed. Store in cool, well ventilated area. Never allow product to

get in contact with water during storage. Store under inert gas. Moisture sensitive. Vent

periodically. Handle and open container with care. Reacts violently with water.

Suitable packaging: Not applicable.

7.3. Specific end use(s)

Specific end use(s): No special requirement.

Section 8: Exposure controls/personal protection

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8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK		-	-	-

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and at the end of workday.

Respiratory protection: Particle filter class P3S (EN143). If the respirator is the sole means of protection, use a

full-face supplied air respirator. Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Eye protection: Face-shield. Safety glasses. Use equipment for eye protection tested and approved

under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Complete suit protecting against chemicals. Flame retardant antistatic protective

clothing. The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific workplace.

Environmental: Do not let product enter drains. Prevent from entering in public sewers or the immediate

environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

Colour: Pale yellow

Solubility in water: Decomposes in contact with water.

Boiling point/range°C: 187.7 °C at 1,003hPa Melting point/range°C: 190 °C - lit

Vapour pressure: < 1.33 hPa at 20 °C Relative density: 2.4400 g/cm3

pH: 2.4 at 100 g/l

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9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Reacts violently with water.

10.4. Conditions to avoid

Conditions to avoid: Exposure to moisture.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Alcohols. Water. Mixtures of nitrobenzene and aluminum

chloride are thermally unstableand may lead to explosive decomposition due to a

multi-step decomposition reaction occurring above 90degrees C, which self-accelerates

with high exothermicity producing azo-azoxypolymers

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of hydrogen chloride / phosgene. In combustion emits

toxic fumes of aluminium oxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis	
Skin corrosion/irritation	DRM	Based on test data	
Serious eye damage/irritation	OPT	Based on test data	

Symptoms / routes of exposure

Skin contact: No data available.

Eye contact: Severe eye irritation.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

Other information: Not applicable.

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	36.6	mg/l
DAPHNIA	48H EC50	27.3	mg/l
ALGAE	48H EC50	0.57	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dissolve or mix the material with a combustible solvent and burn in a chemical

incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable

solutions to a licensed disposal company. Waste material must be disposed of in

accordance with the Directive on waste 2008/98/EC as well as other national and local

 $regulations. \ Leave\ chemicals\ in\ original\ containers.\ No\ mixing\ with\ other\ was te.$

Handle uncleaned containers like the product itself.

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1726

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14.2. UN proper shipping name

Shipping name: ALUMINIUM CHLORIDE, ANHYDROUS

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E
Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No.

1907/2006.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H314: Causes severe skin burns and eye damage.

R34: Causes burns.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.